

ABSTRACT

5 A method and system for locating mobile stations within a mobile communication
network including at least two mobile stations and at least three base stations.
Signal measurements are performed at the mobile stations and/or the base
stations. Two or more mobile stations are located simultaneously by minimizing a
cost-function, which is achieved by means of a sufficient number of equations,
10 wherein the equations comprises the location of the mobile stations as a function
of the location of one of the base stations in the network and the performed
signal measurements.